I claim:

- 1. A light waveguide comprising:
- 2 a first end, and
- 3 a second end
- 4 wherein one of the two ends comprises a flat entering area
- 5 for the light to be coupled into the core of the light
- 6 waveguide, the entering area is narrower than the core diameter
- 7 of the light waveguide, and around the entering area the end of
- 8 the light waveguide is laterally sloped up to the entering
- 9 surface.
 - 2. The light waveguide according to claim 1, wherein the one
- 2 end of the light waveguide is only sloped on both lateral sides
- 3 of the entering area designed
- 1 3. The light waveguide according to claim 1, wherein the one
- 2 end of the light wavequide is sloped such that light entering
- 3 into the sloped surfaces is not further quided in the core of
- 4 the light waveguide.
- 1 4. The light waveguide according to claim 1, wherein the one
- 2 end of the light waveguide is symmetric with respect to an axial
- 3 plane of the light waveguide.

- The light waveguide according to claim 1, wherein the 1
- entering surface is narrower than the core diameter of the light 2
- waveguide and wherein around the entering area a vapor deposited 3
- opaque metal layer is provided. 4
- The light waveguide according to claim 1, wherein the 1
- entering area is at least as long as the core diameter of the 2
- light waveguide. 3
- () () () () The light waveguide according to claim 1, wherein the one
 - end of the light waveguide is only sloped on both lateral sides
- (D) 2 (D) 3 (D) 4 of the entering area designed rectangularly, the one end of the
 - light waveguide is sloped such that light entering into the
- N 10 10 sloped surfaces is not further guided in the core of the light
- 1 6 5 7 waveguide, the one end of the light waveguide is symmetric with
 - respect to an axial plane of the light waveguide, and the
- 13 8 entering area is at least as long as the core diameter of the
 - light waveguide.
 - A light waveguide comprising: 1
 - an entering surface, and 2
 - an existing surface, 3
 - wherein the entering surface is narrower than the core 4
 - diameter of the light waveguide, and around the entering area a 5
 - vapor deposited opaque metal layer is provided. 6

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- The light waveguide according to claim 8, wherein the 2
- entering area is at least as long as the core diameter of the
- light waveguide.
- 10. An optical spectrometer comprising: 1
- an exit slit, and 2
- a detector for the light penetrating through the exit slit, (3 3 (4)
- 74 115 116 wherein the exit slit is formed by the end of the light waveguide, and the detector is disposed at the other end of said light waveguide.
- 11. The optical spectrometer according to claim 10, wherein the end of the light waveguide is only sloped on both lateral sides
 - of the entering area designed rectangularly.
 - The optical spectrometer according to claim 10, wherein the
 - end of the light waveguide is sloped such that light entering 2
 - into the sloped surfaces is not further guided in the core of 3
 - the light waveguide.

- 13. The optical spectrometer according to claim 10, wherein the 1
- end of the light waveguide is symmetric with respect to an axial 2
- plane of the light waveguide. 3
- 14. The optical spectrometer according to claim 10, wherein the 1
- entering surface is narrower than the core diameter of the light 2
- waveguide, and around the entering area a vapor deposited opaque 3

15. The optical spectrometer according to claim 10, wherein the entering area is at least as long as the core diameter of the

metal layer is provided.

light waveguide.

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- - 16. The optical spectrometer according to claim 10, wherein the end of the light waveguide is only sloped on both lateral sides
 - of the entering area designed rectangularly, the end of the 3
 - light waveguide is sloped such that light entering into the
 - sloped surfaces is not further guided in the core of the light 5
 - waveguide, the end of the light waveguide is symmetric with 6
 - respect to an axial plane of the light waveguide, and the 7
 - entering area is at least as long as the core diameter of the 8
 - light waveguide. 9